

Self Inflating Tire

Abstract of the disclosure:

This invention modifies the conventional pneumatic tire and allows the tire to inflate itself to the desired running pressure by driving the vehicle it is mounted on. It consists of a bladder (or diaphragm) or preferably two or more bladders (or diaphragms), mounted to the inside surface of the tire, with check valves and a air supply tube which is connected to the atmosphere by way of a small hole in the sidewall of the tire. The invention employs an inflation valve (new invention) which allows for over pressure relief and a the ability to set the desired tire inflation pressure. The air inflation valve allows for quick inflations and eliminates the necessity for inflating checking pressure and adjusting and checking several times.